CURRENT CLAIMS

- 1-20. Canceled.
- Claim 21: (New) A layered material, comprising:
 - a hard mask layer, and
 - a line dielectric layer, wherein the hard mask layer is applied in a liquid phase to a line dielectric layer, wherein the hard mask layer comprises a Si-N bond, and wherein the hard mask layer is densified such that the hard mask has an etch resistivity that is greater than an etch resistivity of the line dielectric layer.
- Claim 22: (New) The layered material of claim 21, wherein the hard mask layer further comprises and an etch resistivity of a via dielectric layer.
- Claim 23: (New) The layered material of claim 21, wherein the line dielectric layer comprises an organic low dielectric constant material.
- Claim 24: (New) The layered material of claim 23, wherein the organic low dielectric constant material is selected from the group consisting of a polyarylene ether, a polyarylene, a polyimide, and cyanate ester resin.
- Claim 25: (New) The layered material of claim 21, wherein application of the hard mask in liquid phase comprises a spin-on process.
- Claim 26: (New) The layered material of claim 21, wherein the hard mask layer is formed from a polyperhydrosilazane.
- Claim 27: (New) The layered material of claim 27, wherein the polyperhydrosilazane has a structure represented by (SiH₂-NH)_n, wherein n is an integer between 2 and 2000.

Honeywell Docket No. 30-4899 DIV - 4780 Practitioner Docket No. 7210065001-3221000

- Claim 28: (New) The layered material of claim 21, wherein the hard mask layer is densified using a process selected from the group consisting of a furnace cure process, a rapid thermal anneal process, a hot plate anneal process, and an electron beam process.
- Claim 29: (New) The layered material of claim 21, further comprising a diffusion barrier layer.
- Claim 30: (New) The layered material of claim 29, wherein the diffusion barrier layer is applied in a liquid phase to the hard mask layer.
- Claim 31: (New) The layered material of claim 29, wherein the diffusion barrier comprises a Si-N bond.
- Claim 32: (New): The layered material of claim 31, wherein the diffusion barrier layer is formed from a polyperhydrosilazane.
- Claim 33: (New): The layered material of claim 32, wherein the polyperhydrosilazane has a structure represented by (SiH₂-NH)_n, wherein n is an integer between 2 and 2000.
- Claim 34: (New) A dual damascene structure comprising the layered material of claim 22 and a metal element.
- Claim 35: (New) The dual damascene structure of claim 34, wherein the metal element comprises copper.